

METHOD AND SYSTEM FOR IMPROVING NETWORK PERFORMANCE  
USING A PERFORMANCE ENHANCING PROXY

ABSTRACT OF THE DISCLOSURE

[133] A network apparatus for performing functions to enhance performance of a communication network is provided. The network apparatus includes a spoofing module that is configured to selectively spoof a multiple connections associated with a multiple hosts based upon corresponding spoofing criteria and to provide local acknowledgement of received messages over the connections. Additionally, the network apparatus includes a connection module that multiplexes the connections over a common backbone connection, and a prioritization module that prioritizes access to the backbone connection based upon prioritization criteria. Further, the network apparatus includes a path selection module that determines a path to transmit the received messages based upon path selection criteria. The spoofing module allocates a connection control block corresponding to a spoofed connection. Each of the connection control blocks stores information related to the connections. The above arrangement has particular applicability to a bandwidth constrained communication system, such as a satellite network.